

Title (en)
STEREOSCOPIC ENDOSCOPE DEVICE

Title (de)
STEREOSKOPISCHE ENDOSKOPVORRICHTUNG

Title (fr)
DISPOSITIF D'ENDOSCOPE STÉRÉOSCOPIQUE

Publication
EP 2856922 A4 20160127 (EN)

Application
EP 13793831 A 20130416

Priority
• JP 2012118754 A 20120524
• JP 2013061304 W 20130416

Abstract (en)
[origin: EP2856922A1] A stereoscopic moving image of a subject is generated in real-time. Provided is a stereoscopic endoscope device (1) including a single objective lens (5) that collects light from a subject and forms an image of the light; a light splitting section (13) that splits the light collected by the objective lens (5); image-capturing devices (6, 7) that capture optical images of the subject at imaging positions of the split beams of the light; focal-position adjusting sections (11, 12) that give optical path lengths different from each other to the split beams of the light; a calculation section (14) that calculates an object distance between each point on the subject and the objective lens (5) from 2D images acquired by the image-capturing devices (6, 7); and a parallax-image generating section (15) that generates a plurality of viewpoint-images of the subject when observed from a plurality of viewpoints, by using the calculated object distance.

IPC 8 full level
A61B 1/00 (2006.01); **A61B 1/04** (2006.01); **A61B 1/05** (2006.01); **A61B 5/107** (2006.01); **G02B 13/00** (2006.01); **G02B 23/24** (2006.01); **G06T 7/00** (2006.01); **H04N 13/239** (2018.01); **H04N 13/243** (2018.01); **G02B 27/22** (2006.01)

CPC (source: CN EP US)
A61B 1/00009 (2013.01 - EP US); **A61B 1/00045** (2013.01 - EP US); **A61B 1/0005** (2013.01 - EP US); **A61B 1/00096** (2013.01 - EP US); **A61B 1/00188** (2013.01 - EP US); **A61B 1/00193** (2013.01 - CN EP US); **A61B 1/051** (2013.01 - EP US); **A61B 5/1076** (2013.01 - EP US); **G02B 23/2415** (2013.01 - CN EP US); **G06T 7/571** (2016.12 - EP US); **H04N 13/236** (2018.04 - EP US); **H04N 13/239** (2018.04 - CN EP US); **H04N 13/243** (2018.04 - CN EP US); **H04N 13/271** (2018.04 - EP US); **G02B 30/27** (2020.01 - CN US); **G06T 2207/10021** (2013.01 - EP US); **G06T 2207/10068** (2013.01 - EP US); **H04N 13/128** (2018.04 - EP US); **H04N 2013/0081** (2013.01 - EP US)

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2856922 A1 20150408; EP 2856922 A4 20160127; EP 2856922 B1 20181010; CN 104321005 A 20150128; CN 104321005 B 20170222; JP 2013244104 A 20131209; JP 5965726 B2 20160810; US 2015073209 A1 20150312; WO 2013175899 A1 20131128

DOCDB simple family (application)
EP 13793831 A 20130416; CN 201380026375 A 20130416; JP 2012118754 A 20120524; JP 2013061304 W 20130416; US 201414547600 A 20141119